

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/553,051

Source: IFWO

Date Processed by STIC: 8/29/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/553,051

CRF Edit Date: 8/29/06
Edited by: AZ

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

J Deleted: J invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

J Other: Sequence 2 - deleted "543" under amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 08/29/2006

PATENT APPLICATION: US/10/553,051

TIME: 10:29:48

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08292006\J553051.raw

3 <110> APPLICANT: Japan Science and Technology Agency
 5 <120> TITLE OF INVENTION: Mouse Deficient In Glutamate Transporter GLAST Function
 7 <130> FILE REFERENCE: G05-0071
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/553,051
 C--> 9 <141> CURRENT FILING DATE: 2005-10-12
 9 <150> PRIOR APPLICATION NUMBER: JP2003-114793
 10 <151> PRIOR FILING DATE: 2003-04-18
 12 <160> NUMBER OF SEQ ID NOS: 2
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 1629
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Mouse
 19 <400> SEQUENCE: 1
 20 atgacaaaaa gcaacggaga agagcctagg atgggggggca ggatggagag attgcagcaa 60
 21 ggggtccgca agcggacact tctggccaag aagaaagttc agagcctcac caaggaagat 120
 22 gttaagagtt acctgtttcg gaatgccttc gttctgctca cggtcactgc tgtcattgtg 180
 23 ggtacaatcc ttggatttgc cctccgaccg tataaaatga gctaccggga ggtgaagtac 240
 24 ttttcgttcc ctggggagct tctcatgagg atgctgcaga tgctgggtctt gccctgatc 300
 25 atctccagtc tcgtcacagg aatggcggcc ctagatagta aggcattcgg gaagatgggg 360
 26 atgcgcgctg tagtctatta catgactact accatcattg ctgtggtgat tggcataatc 420
 27 attgtcatca tcatccaccc cggaaagggc acaaaggaaa acatgtacag agaaggtaaa 480
 28 atcgtgcagg tcaactgcagc agatgccttc ctggatttga tcaggaacat gttccctccc 540
 29 aatctggtag aagcctgctt taaacagttt aaaaccagct acgagaaaag aagctttaaa 600
 30 gtgcctatcc agtccaacga aacacttctg ggcgcctgta tcaacaacgt gtcagaggcc 660
 31 atggagactc tgaccgggat ccgggaggag atggtgcccg tgccctggatc tgtgaatggg 720
 32 gtcaatgccc tgggcctagt tgtcttctcc atgtgcttcg gtttcgtgat cggaaacatg 780
 33 aaggagcagg ggcaagcgct gagagagttc tttgattctc ttaacgaagc catcatgcga 840
 34 ttggtcgcgg tgataatgtg gtatgcgcct ctgggcatcc tcttcttgat cgcaggggaag 900
 35 attgttgaga tggaagacat ggggtgtgatt gggggacagc ttgccatgta caccgtgaca 960
 36 gtcattgtcg gctcctcat tcacgcgctc atcgtcctgc ctctcctcta ctctctggtg 1020
 37 acccggaaga acccctgggt ttctattgga ggggttgcctc aagcgtcatc cacagccctt 1080
 38 gggacctcct caagtctctgc caccctaccc atcactttca agtgccctgga agagaacaat 1140
 39 ggtgtggaca aacgcatacc cagatttgtg ctccccgtgg gggccaccat taacatggat 1200
 40 gggaccgccc tctacgagcc tttggtgccc attttcatcg ctcaagtga caactttgac 1260
 41 ctgaactttg gacagattat aacaataagc atcacagcca cggccgcaag catcggggca 1320
 42 gccgggattc ctcaggccgg tctggtcacc atggtcatcg tgctgacatc tgtgggctcg 1380
 43 cccacagatg acatcacact catcattgca gtggactggg ttctggaccg cctccgaacc 1440
 44 accaccaacg tactgggtga ctccctcgga gcagggattg tcgagcactt gtcccgacat 1500
 45 gaactgaaga accgagatgt tgaaatgggg aactcggtga ttgaggagaa cgaaatgaag 1560
 46 aagccgtatc agctgattgc ccaggacaat gaaccggaga aaccctgggc agacagcgaa 1620
 47 accaagatg 1629
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 543

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51 <212> TYPE: PRT
52 <213> ORGANISM: Mouse
54 <400> SEQUENCE: 2
55 Met Thr Lys Ser Asn Gly Glu Glu Pro Arg Met Gly Gly Arg Met Glu
56 1 5 10 15
57 Arg Leu Gln Gln Gly Val Arg Lys Arg Thr Leu Leu Ala Lys Lys Lys
58 20 25 30
59 Val Gln Ser Leu Thr Lys Glu Asp Val Lys Ser Tyr Leu Phe Arg Asn
60 35 40 45
61 Ala Phe Val Leu Leu Thr Val Thr Ala Val Ile Val Gly Thr Ile Leu
62 50 55 60
63 Gly Phe Ala Leu Arg Pro Tyr Lys Met Ser Tyr Arg Glu Val Lys Tyr
64 65 70 75 80
65 Phe Ser Phe Pro Gly Glu Leu Leu Met Arg Met Leu Gln Met Leu Val
66 85 90 95
67 Leu Pro Leu Ile Ile Ser Ser Leu Val Thr Gly Met Ala Ala Leu Asp
68 100 105 110
69 Ser Lys Ala Ser Gly Lys Met Gly Met Arg Ala Val Val Tyr Tyr Met
70 115 120 125
71 Thr Thr Thr Ile Ile Ala Val Ile Gly Ile Ile Ile Val Ile Ile
72 130 135 140
73 Ile His Pro Gly Lys Gly Thr Lys Glu Asn Met Tyr Arg Glu Gly Lys
74 145 150 155 160
75 Ile Val Gln Val Thr Ala Ala Asp Ala Phe Leu Asp Leu Ile Arg Asn
76 165 170 175
77 Met Phe Pro Pro Asn Leu Val Glu Ala Cys Phe Lys Gln Phe Lys Thr
78 180 185 190
79 Ser Tyr Glu Lys Arg Ser Phe Lys Val Pro Ile Gln Ser Asn Glu Thr
80 195 200 205
81 Leu Leu Gly Ala Val Ile Asn Asn Val Ser Glu Ala Met Glu Thr Leu
82 210 215 220
83 Thr Arg Ile Arg Glu Glu Met Val Pro Val Pro Gly Ser Val Asn Gly
84 225 230 235 240
85 Val Asn Ala Leu Gly Leu Val Val Phe Ser Met Cys Phe Gly Phe Val
86 245 250 255
87 Ile Gly Asn Met Lys Glu Gln Gly Gln Ala Leu Arg Glu Phe Phe Asp
88 260 265 270
89 Ser Leu Asn Glu Ala Ile Met Arg Leu Val Ala Val Ile Met Trp Tyr
90 275 280 285
91 Ala Pro Leu Gly Ile Leu Phe Leu Ile Ala Gly Lys Ile Val Glu Met
92 290 295 300
93 Glu Asp Met Gly Val Ile Gly Gly Gln Leu Ala Met Tyr Thr Val Thr
94 305 310 315 320
95 Val Ile Val Gly Leu Leu Ile His Ala Val Ile Val Leu Pro Leu Leu
96 325 330 335
97 Tyr Phe Leu Val Thr Arg Lys Asn Pro Trp Val Phe Ile Gly Gly Leu
98 340 345 350
99 Leu Gln Ala Leu Ile Thr Ala Leu Gly Thr Ser Ser Ser Ser Ala Thr
100 355 360 365

```

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Output Set: N:\CRF4\08292006\J553051.raw

```

101 Leu Pro Ile Thr Phe Lys Cys Leu Glu Glu Asn Asn Gly Val Asp Lys
102      370              375              380
103 Arg Ile Thr Arg Phe Val Leu Pro Val Gly Ala Thr Ile Asn Met Asp
104 385              390              395              400
105 Gly Thr Ala Leu Tyr Glu Ala Leu Ala Ala Ile Phe Ile Ala Gln Val
106              405              410              415
107 Asn Asn Phe Asp Leu Asn Phe Gly Gln Ile Ile Thr Ile Ser Ile Thr
108              420              425              430
109 Ala Thr Ala Ala Ser Ile Gly Ala Ala Gly Ile Pro Gln Ala Gly Leu
110              435              440              445
111 Val Thr Met Val Ile Val Leu Thr Ser Val Gly Leu Pro Thr Asp Asp
112      450              455              460
113 Ile Thr Leu Ile Ile Ala Val Asp Trp Phe Leu Asp Arg Leu Arg Thr
114 465              470              475              480
115 Thr Thr Asn Val Leu Gly Asp Ser Leu Gly Ala Gly Ile Val Glu His
116              485              490              495
117 Leu Ser Arg His Glu Leu Lys Asn Arg Asp Val Glu Met Gly Asn Ser
118              500              505              510
119 Val Ile Glu Glu Asn Glu Met Lys Lys Pro Tyr Gln Leu Ile Ala Gln
120      515              520              525
121 Asp Asn Glu Pro Glu Lys Pro Val Ala Asp Ser Glu Thr Lys Met
122      530              535              540

```

VERIFICATION SUMMARY

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DATE: 08/29/2006

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Input Set : A:\PTO.AMC.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWO

RAW SEQUENCE LISTING

DATE: 08/24/2006

PATENT APPLICATION: US/10/553,051

TIME: 15:02:52

Input Set : A:\23312-118sequence.txt

Output Set : N:\CRF4\08242006\J553051.raw

3 <110> APPLICANT: Japan Science and Technology Agency
 5 <120> TITLE OF INVENTION: Mouse Deficient In Glutamate Transporter GLAST Function
 7 <130> FILE REFERENCE: G05-0071
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/553,051
 C--> 9 <141> CURRENT FILING DATE: 2005-10-12
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 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 1629
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Mouse
 19 <400> SEQUENCE: 1

20	atgaccaaaa	gcaacggaga	agagcctagg	atgggggggca	ggatggagag	attgcagcaa	60
21	gggggtccgca	agcggacact	tctggccaag	aagaaagtgc	agagcctcac	caaggaagat	120
22	gttaagagtt	acctgtttcg	gaatgccttc	gttctgctca	cggtcactgc	tgtcattgtg	180
23	ggtacaatcc	ttggatttgc	cctccgaccg	tataaaatga	gctaccggga	ggtgaagtac	240
24	ttttcgttcc	ctggggagct	tctcatgagg	atgctgcaga	tgctgggtctt	gccccctgatc	300
25	atctccagtc	tcgtcacagg	aatggcggcc	ctagatagta	aggcatccgg	gaagatgggg	360
26	atgcgcgctg	tagtctatta	catgactact	accatcattg	ctgtggtgat	tggcataatc	420
27	attgtcatca	tcattccacc	cggaaagggc	acaaaggaaa	acatgtacag	agaaggtaaa	480
28	atcgtgcagg	tactgcagc	agatgccttc	ctggatttga	tcaggaacat	gttccctccc	540
29	aatctggtag	aagcctgctt	taaacagttt	aaaaccagct	acgagaaaag	aagcttttaa	600
30	gtgcctatcc	agccaacga	aacacttctg	ggcgccgtga	tcaacaacgt	gtcagaggcc	660
31	atggagactc	tgaccgggat	ccgggaggag	atggtgcccg	tgccctggatc	tgtgaatggg	720
32	gtcaatgccc	tgggcctagt	tgtcttctcc	atgtgcttcg	gtttcgtgat	cggaaacatg	780
33	aaggagcagg	ggcaagcgct	gagagagttc	tttgattctc	ttaacgaagc	catcatgcga	840
34	ttggtcgcg	tgataatgtg	gtatgcgcct	ctgggcatcc	tcttcttgat	cgcagggaag	900
35	attgttgaga	tgaagacat	gggtgtgatt	gggggacagc	ttgccatgta	caccgtgaca	960
36	gtcattgtcg	gcctcctcat	tcacgcgcgc	atcgtcctgc	ctctcctcta	cttccctggtg	1020
37	acccggaaga	acccctgggt	tttcattgga	gggttgctgc	aagcgcctcat	cacagccctt	1080
38	gggacctcct	caagttctgc	caccctaccc	atcactttca	agtgcctgga	agagaacaat	1140
39	ggtgtggaca	aacgcatacc	cagattttgtg	ctccccgtgg	gggccaccat	taacatggat	1200
40	gggaccgccc	tctacgaggg	tttggtctgc	atcttcatcg	ctcaagtga	caactttgac	1260
41	ctgaactttg	gacagattat	aacaataagc	atcacagcca	cggccgcaag	catcggggca	1320
42	gccgggattc	ctcaggccgg	tctggtcacc	atggtcatcg	tgctgacatc	tgtgggcctg	1380
43	cccacagatg	acatcacact	catcattgca	gtggactggg	ttctggaccg	cctccgaacc	1440
44	accaccaacg	tactgggtga	ctccctcgga	gcagggattg	tcgagcactt	gtcccgcacat	1500
45	gaactgaaga	accgagatgt	tgaaatgggg	aactcggtga	ttgaggagaa	cgaaatgaag	1560
46	aagccgtatc	agctgattgc	ccaggacaat	gaaccggaga	aaccctgggc	agacagcgaa	1620
47	accaagatg						1629
49	<210> SEQ ID NO: 2						
50	<211> LENGTH: 543						

P.3

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 08/24/2006

PATENT APPLICATION: US/10/553,051

TIME: 15:02:52

Input Set : A:\23312-118sequence.txt

Output Set: N:\CRF4\08242006\J553051.raw

```

51 <212> TYPE: PRT
52 <213> ORGANISM: Mouse
54 <400> SEQUENCE: 2
55 Met Thr Lys Ser Asn Gly Glu Glu Pro Arg Met Gly Gly Arg Met Glu
56 1 5 10 15
57 Arg Leu Gln Gln Gly Val Arg Lys Arg Thr Leu Leu Ala Lys Lys Lys
58 20 25 30
59 Val Gln Ser Leu Thr Lys Glu Asp Val Lys Ser Tyr Leu Phe Arg Asn
60 35 40 45
61 Ala Phe Val Leu Leu Thr Val Thr Ala Val Ile Val Gly Thr Ile Leu
62 50 55 60
63 Gly Phe Ala Leu Arg Pro Tyr Lys Met Ser Tyr Arg Glu Val Lys Tyr
64 65 70 75 80
65 Phe Ser Phe Pro Gly Glu Leu Leu Met Arg Met Leu Gln Met Leu Val
66 85 90 95
67 Leu Pro Leu Ile Ile Ser Ser Leu Val Thr Gly Met Ala Ala Leu Asp
68 100 105 110
69 Ser Lys Ala Ser Gly Lys Met Gly Met Arg Ala Val Val Tyr Tyr Met
70 115 120 125
71 Thr Thr Thr Ile Ile Ala Val Val Ile Gly Ile Ile Ile Val Ile Ile
72 130 135 140
73 Ile His Pro Gly Lys Gly Thr Lys Glu Asn Met Tyr Arg Glu Gly Lys
74 145 150 155 160
75 Ile Val Gln Val Thr Ala Ala Asp Ala Phe Leu Asp Leu Ile Arg Asn
76 165 170 175
77 Met Phe Pro Pro Asn Leu Val Glu Ala Cys Phe Lys Gln Phe Lys Thr
78 180 185 190
79 Ser Tyr Glu Lys Arg Ser Phe Lys Val Pro Ile Gln Ser Asn Glu Thr
80 195 200 205
81 Leu Leu Gly Ala Val Ile Asn Asn Val Ser Glu Ala Met Glu Thr Leu
82 210 215 220
83 Thr Arg Ile Arg Glu Glu Met Val Pro Val Pro Gly Ser Val Asn Gly
84 225 230 235 240
85 Val Asn Ala Leu Gly Leu Val Val Phe Ser Met Cys Phe Gly Phe Val
86 245 250 255
87 Ile Gly Asn Met Lys Glu Gln Gly Gln Ala Leu Arg Glu Phe Phe Asp
88 260 265 270
89 Ser Leu Asn Glu Ala Ile Met Arg Leu Val Ala Val Ile Met Trp Tyr
90 275 280 285
91 Ala Pro Leu Gly Ile Leu Phe Leu Ile Ala Gly Lys Ile Val Glu Met
92 290 295 300
93 Glu Asp Met Gly Val Ile Gly Gly Gln Leu Ala Met Tyr Thr Val Thr
94 305 310 315 320
95 Val Ile Val Gly Leu Ile His Ala Val Ile Val Leu Pro Leu Leu
96 325 330 335
97 Tyr Phe Leu Val Thr Arg Lys Asn Pro Trp Val Phe Ile Gly Gly Leu
98 340 345 350
99 Leu Gln Ala Leu Ile Thr Ala Leu Gly Thr Ser Ser Ser Ser Ala Thr
100 355 360 365

```

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DATE: 08/24/2006

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103 Arg Ile Thr Arg Phe Val Leu Pro Val Gly Ala Thr Ile Asn Met Asp
104 385              390              395              400
105 Gly Thr Ala Leu Tyr Glu Ala Leu Ala Ala Ile Phe Ile Ala Gln Val
106              405              410              415
107 Asn Asn Phe Asp Leu Asn Phe Gly Gln Ile Ile Thr Ile Ser Ile Thr
108              420              425              430
109 Ala Thr Ala Ala Ser Ile Gly Ala Ala Gly Ile Pro Gln Ala Gly Leu
110              435              440              445
111 Val Thr Met Val Ile Val Leu Thr Ser Val Gly Leu Pro Thr Asp Asp
112      450              455              460
113 Ile Thr Leu Ile Ile Ala Val Asp Trp Phe Leu Asp Arg Leu Arg Thr
114 465              470              475              480
115 Thr Thr Asn Val Leu Gly Asp Ser Leu Gly Ala Gly Ile Val Glu His
116              485              490              495
117 Leu Ser Arg His Glu Leu Lys Asn Arg Asp Val Glu Met Gly Asn Ser
118              500              505              510
119 Val Ile Glu Glu Asn Glu Met Lys Lys Pro Tyr Gln Leu Ile Ala Gln
120              515              520              525
121 Asp Asn Glu Pro Glu Lys Pro Val Ala Asp Ser Glu Thr Lys Met
122      530              535              540      543
124 WASH_1478687.1

```

*number the amino acids
under every 5 amino acids*

VERIFICATION SUMMARY

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Output Set: N:\CRF4\08242006\J553051.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date